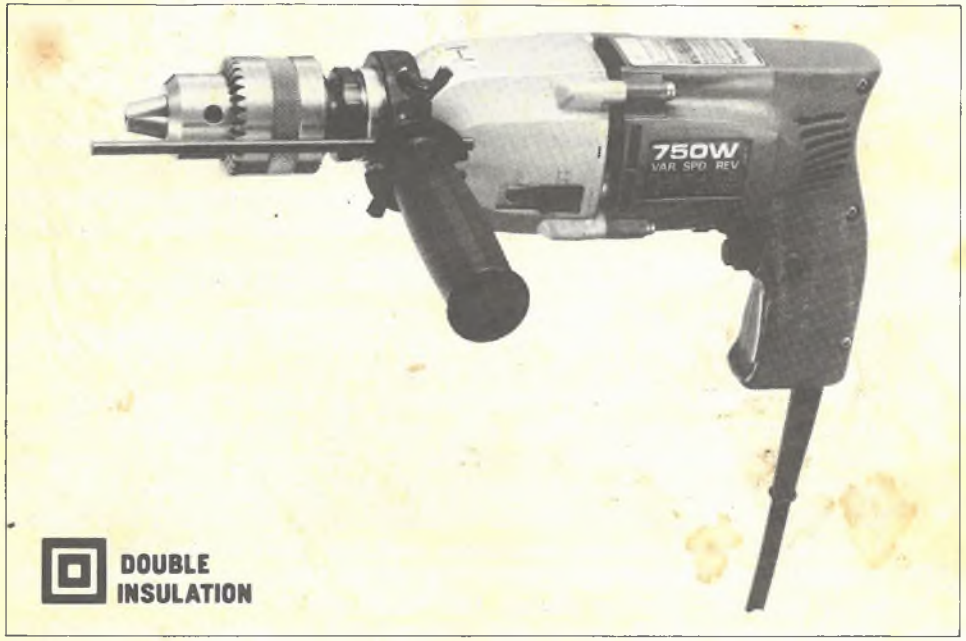
Makita Hammer Drill

2-SPEED MODEL HP2010

Variable speed/ Reversing

INSTRUCTION MANUAL



SPECIFICATIONS

Speed	Capacities			No load speed	Blows per minute	Overall length	Net weight
	In wood	In steel	In concrete				
High	20 mm (3/4")	6.5 mm (1/4")	13 mm (1/2")	0 – 2,300 R/min.	0 – 46,000	360 mm (14-3/16")	3.3 kg (7.2 lbs)
Low	40 mm (1-1/2")	16 mm (5/8")	20 mm (3/4")	0 – 900 R/min.	0 – 18,000		

* Manufacturer reserves the right to change specifications without notice.
* Note : Specifications may vary from country to country.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS.

1. **KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.**
2. **CONSIDER WORK AREA ENVIRONMENT. Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain. Don't use tool in presence of flammable liquids or gases.**
3. **KEEP CHILDREN AWAY. All visitors should be kept away from work area. Don't let visitors contact tool or extension cord.**
4. **STORE IDLE TOOLS. When not in use, tools should be stored in dry, and high or locked-up place — out of reach of children.**
5. **DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was intended.**
6. **USE RIGHT TOOL. Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended.**
7. **DRESS PROPERLY. Don't wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.**
8. **USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty.**
9. **DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.**
10. **SECURE WORK. Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.**
11. **DON'T OVERREACH. Keep proper footing and balance at all times.**
12. **MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.**
13. **DISCONNECT TOOLS. When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.**
14. **REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.**
15. **AVOID UNINTENTIONAL STARTING. Don't carry plugged-in tool with finger on switch. Be sure switch is OFF when plugging in.**
16. **OUTDOOR USE EXTENSION CORDS. When tool is used outdoors, use only extension cords intended for use outdoors and so marked.**
17. **STAY ALERT. Watch what you are doing, use common sense. Don't operate tool when you are tired.**

18. **CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Don't use tool if switch does not turn it on and off.**
19. **GUARD AGAINST ELECTRIC SHOCK. Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.**
20. **REPLACEMENT PARTS. When servicing, use only identical replacement parts.**

VOLTAGE WARNING: Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in SERIOUS INJURY to the user — as well as damage to the tool. If in doubt, DO NOT PLUG IN THE TOOL. Using a power source with voltage less than the nameplate rating is harmful to the motor.

ADDITIONAL SAFETY RULES FOR HAMMER DRILL

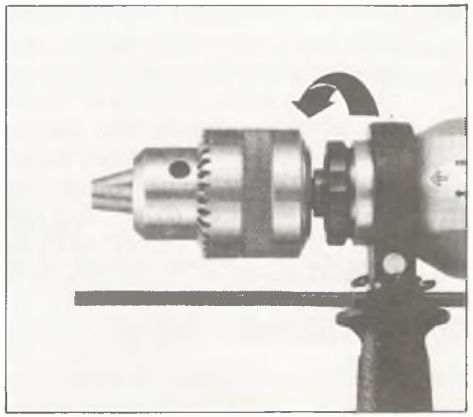
1. **When drilling into walls, floors or whatever "live" electrical wires may be encountered. DO NOT TOUCH THE CHUCK OR ANY FRONT METAL PARTS OF THE DRILL. Hold the tool only by the plastic handle or the side grip to prevent electric shock if you drill into a "live" wire.**
2. **A tool tends to twist during operation, so grip it firmly with both hands. This twisting action can be especially dangerous at the time of hole breakthrough, when making an already existing hole larger or when a hole being drilled connects with another one.**
3. **Solidly clamped material is your best insurance against dangerously whirling stock. Use a vise, clamp or holder.**
4. **Watch your footing and balance in high locations. Be sure no one is below before you begin operation.**
5. **Do not leave the tool somewhere when it is still running, or a dangerous accident can occur. Operate the tool only when hand-held.**
6. **Do not touch a revolving bit or chuck. Either can inflict injury or catch on something. Knit gloves should never be worn because they tend to catch.**
7. **The bit and chips are red-hot after a hole has been drilled. Keep away from them.**

SAVE THESE INSTRUCTIONS.

HOW TO USE

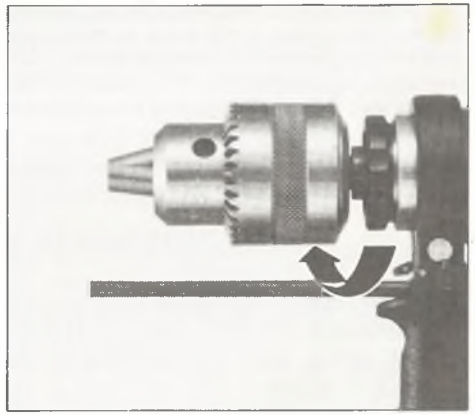
• Rotation with hammering

For drilling extra-hard materials such as concrete, granite, tile and marble, turn the change ring in the direction of multiple-arrow indication. This sets the tool for hammering + rotation (drilling). Use a concrete drill bit.



• Rotation

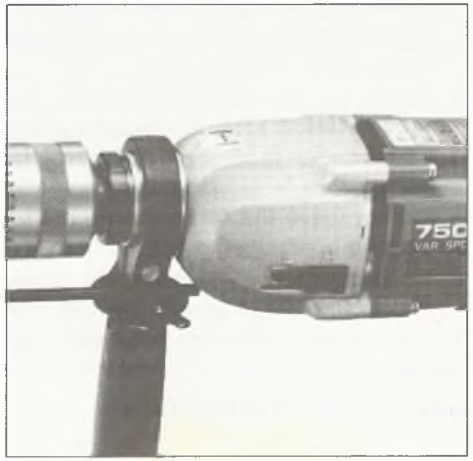
For drilling metal, wood or plastic materials, turn the change ring in the direction of single arrow indicating. This sets the tool for rotation (drilling) only. Use a conventional wood or metal drill bit.



• Change lever

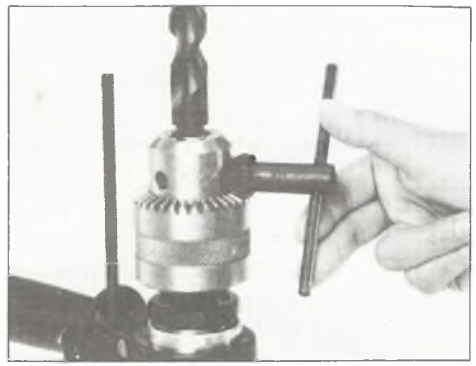
To change the speed, press the change lever and slide to L or H.
If the change lever doesn't slide easily, clank the motor slowly by turning the chuck an either direction, while sliding the change lever.

* High speed
  By setting the change lever on high (H), you get full rotation (2,300/min) with heavy hammering (46,000/min.)
* Low speed
  By setting the change lever on low (L), a clean job is obtained when drilling hard materials such as tile or marble.



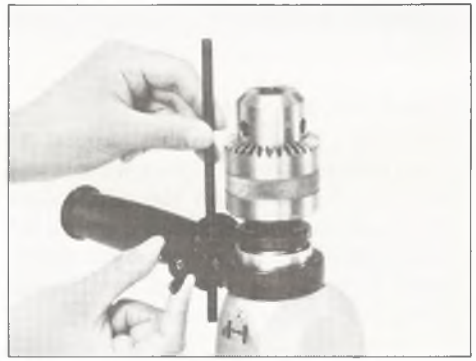
• Drill chuck

When installing a drill bit, insert it in the chuck hole as far as it will go. Then use the chuck key to fasten it in place, tightening evenly and in order at each of the three key holes.



• Adjustable depth rod

The adjustable depth rod is used to drill holes of uniform depth. Loosen the thumb bolt, set to desired position, then tighten the thumb bolt.



• Switch action

Speed screw for continuous use at desired speed

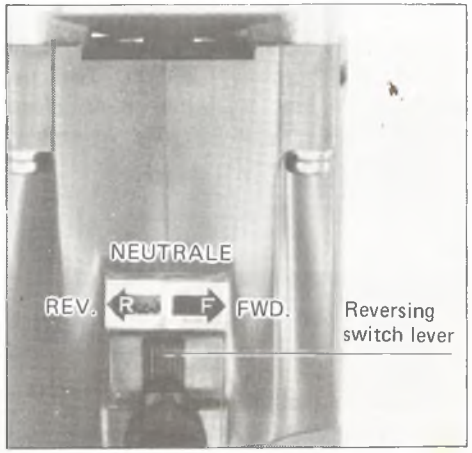
The speed screw on the trigger can be used together with the lock button to obtain convenient continuous operation at any speed setting from 0 – 2,300 RPM (when setting change lever on high (HI)) and 0 – 900 RPM (when setting change lever on low (LO)). This screw is first screwed in (for higher speeds) or out (for lower speeds) for the desired setting. Then the trigger is pulled as far as it will go, and in this position the lock button is pushed in. The trigger can now be released, and the tool will run continuously at the speed it is set for. To stop from this lock position, simply pull the trigger and then release it.

• **Reversing switch**

CAUTION:

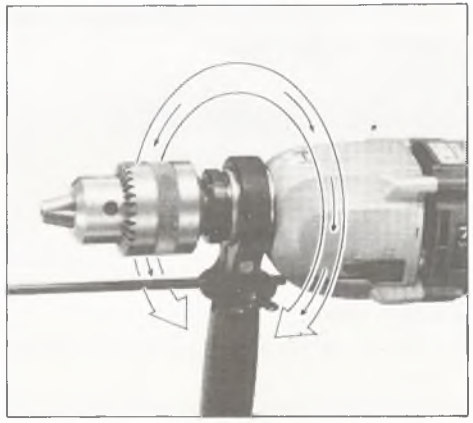
Never reverse directions (reversing switch) until the tool has come to a complete stop. Reversing before it stops may ruin the tool.

The reversing switch to change the direction of tool rotation is located in the heel of the handle. For normal use, the reversing switch lever should be in the "FWD" position. The tool starts when the trigger is pulled and stops when it is released. When changing the rotation direction, be sure the trigger switch is released (OFF) and change the rotation direction.



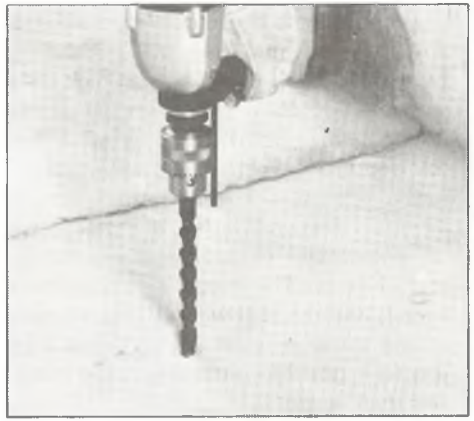
• **Swivel-type grip assembly**

This grip assembly swings around to either side to permit efficient work in any position. To reposition the grip, loosen the thumb screw and turn the grip to the desired position. Then tighten the thumb screw securely, or the grip can become loose and swing around dangerously.



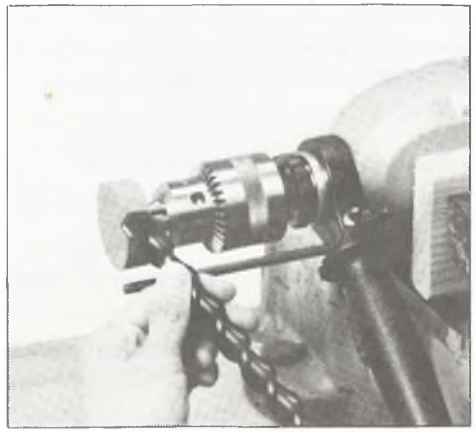
• **When holes become clogged**

Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool idle, then withdraw from the hole. By repeating this several times, the hole will be cleaned out completely.



• **Wheel point**

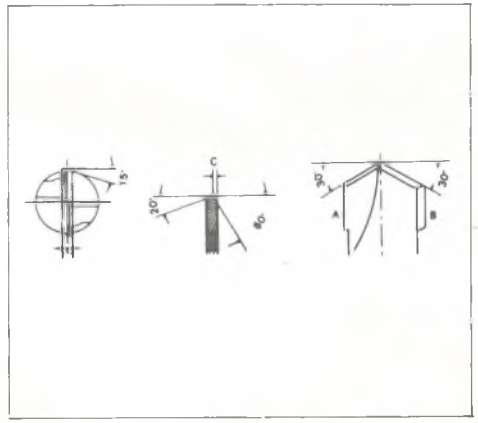
Should your bit become dull, attach the shank mounted wheel point onto the chuck. Then use the lock button to keep the tool running continuously, while grinding the tip as in the photo.



Without 60° chamfering, a tungsten-carbide tip can be ruined.

The tip of a bit may be used while hot, but it must never be quenched in water or oil.

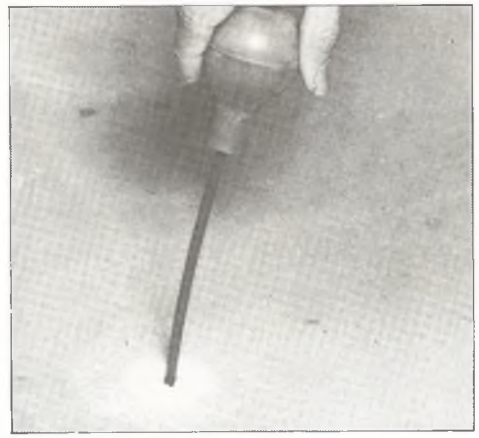
The shank-mounted wheel point it especially made for grinding tungsten-carbide materials. Use this kind of grinding wheel to sharpen bits. Do not grind the sides (A) and (B) shown in the illust.



• **Blow-out bulb**

After drilling, use the blow-out bulb to clean out the hole.

When using the blow-out bulb, wear safety glasses for guard your eyes.



MAINTENANCE

CAUTION:
Always be sure that the tool is switched off and unplugged before attempting to perform inspection and maintenance.

• Removing dust and foreign particles

The tool becomes dusty and covered with foreign matter. Clean it from time to time.

Have your nearest Service Center check the carbon brushes for wear and the grease (lube) condition every 3 months. When replacing brushes, use only Makita-recommended brushes for new ones.

ACCESSORIES

CAUTION: The accessories specified in this manual are recommended for use with your Makita Hammer Drill. The use of any other accessories might be hazardous.

• Tungsten-carbide tip bit

Bit diameter (mm)	Max. drilling depth (mm)	Overall length (mm)	Part No.
5 (3/16")	40 (1 9/16")	70 (2-3/4")	711023-0
6.5 (1/4")	50 (2")	80 (3 1/8")	711003-6
7.5 (5/16")	60 (2-3/8")	90 (3 1/2")	711024-8
8.0 (5/16")	95 (3-3/4")	120 (4-3/4")	711067-3
8.5 (11/32")	75 (2-15/16")	100 (4")	711004-4
8.5 (11/32")	155 (6 1/8")	180 (7 1/8")	711026-4
9.5 (3/8")	95 (3-3/4")	120 (4-3/4")	711058-1
10.5 (13/32")	95 (3-3/4")	120 (4-3/4")	711059-9
11 (7/16")	95 (3-3/4")	120 (4-3/4")	711005-2
12.5 (1/2")	95 (3-3/4")	120 (4-3/4")	711060-4
14 (9/16")	125 (4-15/16")	150 (5-7/8")	711025-6
14 (9/16")	155 (6 1/8")	180 (7 1/8")	711027-2
14 (9/16")	275 (10-13/16")	300 (11-3/4")	711028-0
16 (5/8")	160 (6-5/16")	220 (8-5/8")	711039-5
19 (3/4")	160 (6-5/16")	220 (8-5/8")	711040-0

• Chuck key S16

Part No. 763221-2

• Wheel point 50–80

Part No. 741601-2

• Blow-out bulb 54

Part No. 765009-6

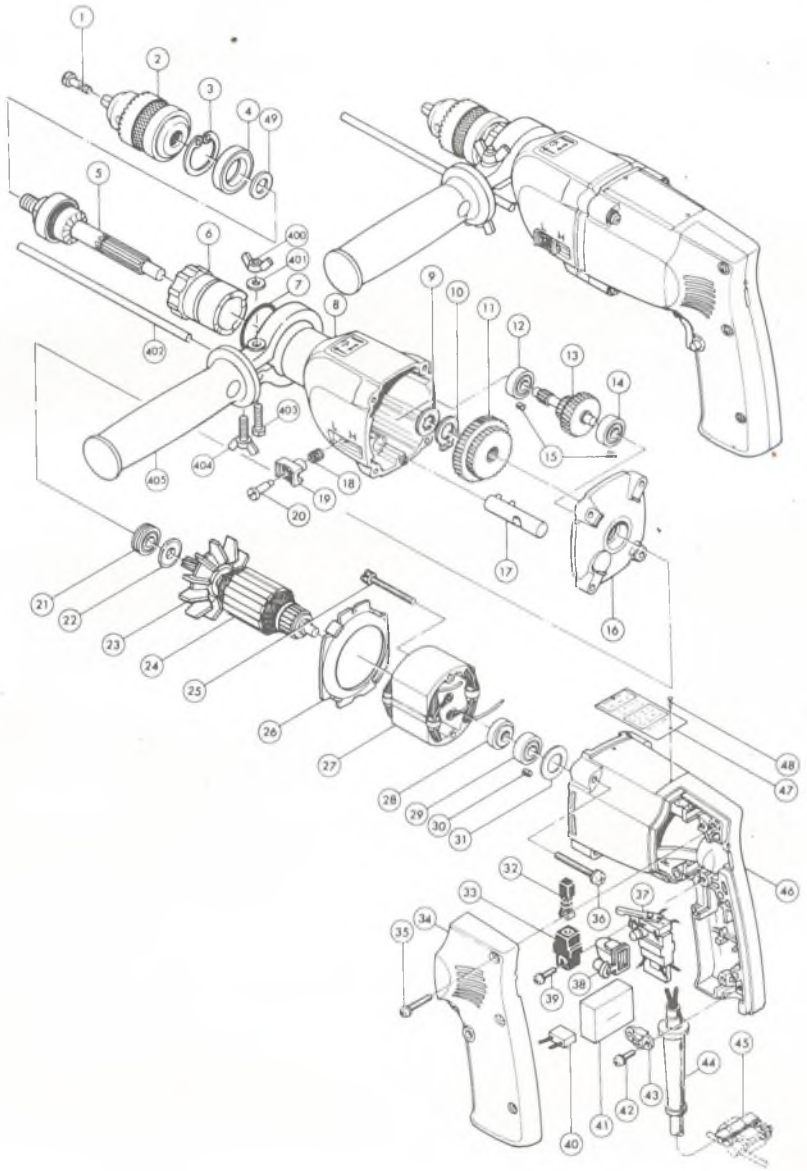
• Steel carrying case

Part No. 181014-9

• Grip assembly

Part No. 122232-0

Makita 2-SPEED HAMMER DRILL Model HP2010



Note: The switch, noise suppressor and other part configurations may differ from country to country.

ITEM NO.	NO. USED	DESCRIPTION
MACHINE		
1	1	(–) Screw M6x30
2	1	Drill Chuck S16
3	1	Retaining Ring R–32
4	1	Dust Seal 20
5	1	Spindle (With Ball Bearing 6002LLB & Cam A)
6	1	Change Ring
7	1	O Ring 34
8	1	Gear Housing (With Cam B & Item 15)
9	1	Plate
10	1	Retaining Ring S–12
11	1	Gear 39–49
12	1	Ball Bearing 627LLB
13	1	Gear 9–19–41
14	1	Ball Bearing 627LLB
15	2	Rubber Pin 4
16	1	Gear Housing Cover (With Plane Bearing 7.9 & Item 15)
17	1	Shifter Rod
18	1	Compression Spring 5
19	1	Change Lever
20	1	(–) Screw M4
21	1	Ball Bearing 807LLB
22	1	Dust Seal 8
23	1	Fan 62
24	1	ARMATURE ASSEMBLY (Assembled Items 21 – 24, 28 & 29)
25	2	H. Bolt M4x55 (With Washer)
26	1	Baffle Plate
27	1	FIELD ASSEMBLY

ITEM NO.	NO. USED	DESCRIPTION
MACHINE		
28	1	Insulation Washer
29	1	Ball Bearing 627LB
30	1	Rubber Pin 4
31	1	F. Washer 14
32	2	Carbon Brush
33	2	Brush Holder
34	1	Handle Cover
35	4	P. H. Screw M4x22 (With Washer)
36	4	P. H. Screw M5x45 (With Washer)
37	1	Switch
38	1	Switch Cover
39	2	P. H. Screw M4x14 (With Washer)
40	1	Noise Suppressor
41	1	Sponge Sheet
42	2	P. H. Screw M4x18 (With Washer)
43	1	Strain Relief
44	1	Cord Guard
45	1	CORD ASSEMBLY (Assembled Cord, Plug & Cord Guard)
46	1	Motor Housing (With Item 30)
47	1	Name Plate
48	2	Rivet 0–5
49	1	F. Washer 13
400	1	W. Nut M6
401	1	F. Washer 6
402	1	Depth Rod
403	1	H. Bolt M6x40
404	1	T. Screw M5x20
405	1	Grip

Note: The switch, noise suppressor and other part specifications may differ from country to country.

Makita Electric Works, Ltd.
Anjo, Aichi, Japan

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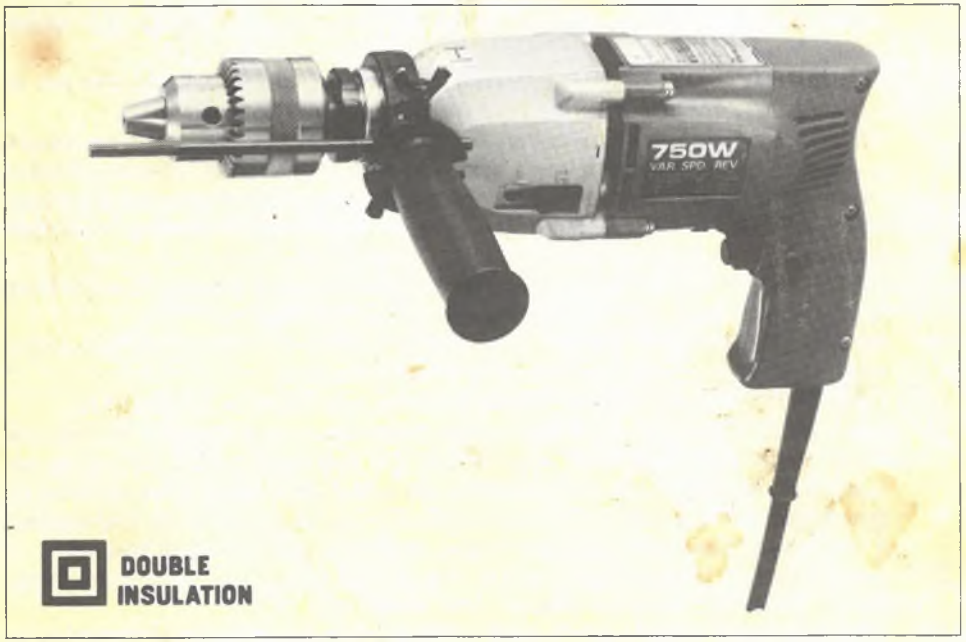

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